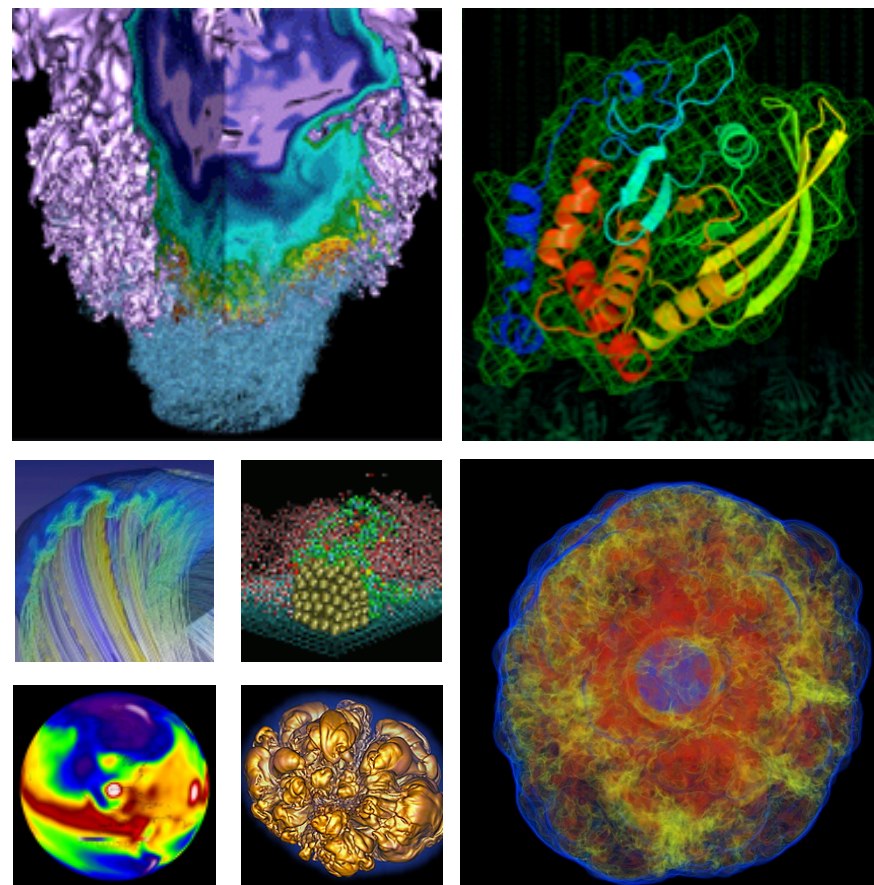


Next Steps



Harvey Wasserman User Services Group

July 15, 2014



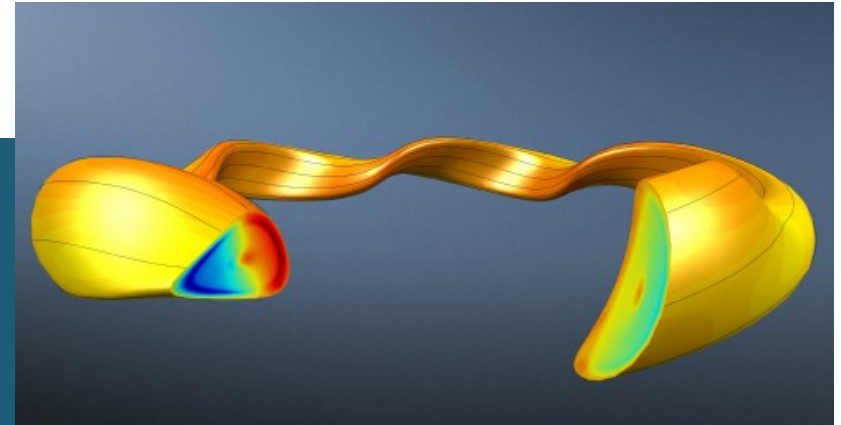
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Lawrence Berkeley
National Laboratory

You Are Not Alone !



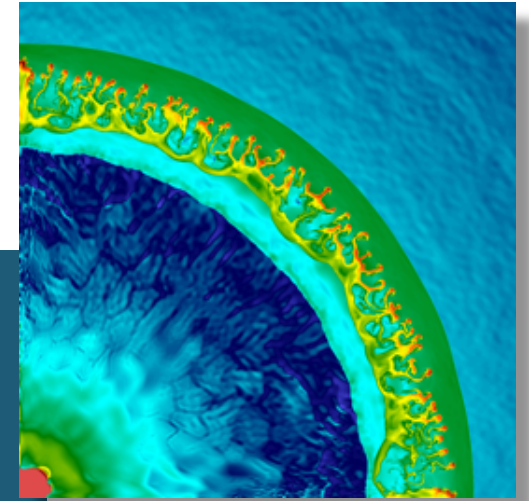
A calculation of the self-generated plasma current in the W7-X reactor, performed using the SFINCS code on Edison. The colors represent the amount of electric current along the magnetic field, and the black lines show magnetic field lines. Image: Matt Landreman



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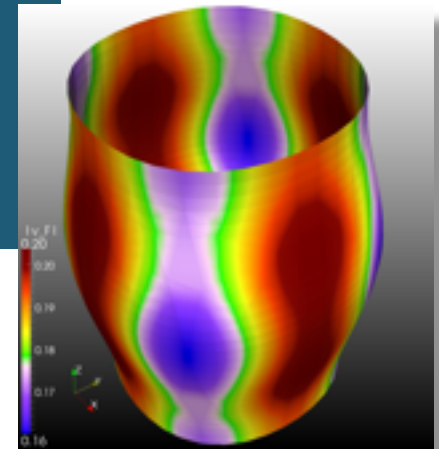
You Will Be Successful !



Collision between two shells of matter ejected in two supernova eruptions, showing a slice through a corner of the event. Colors represent gas density (red is highest, dark blue is lowest). Image courtesy of Ke-Jung Chen, School of Physics and Astronomy, Univ. Minnesota. Repo m1400



Rule # 3: (Not Always)



Color map of calculated Fermi Surfaces showing anisotropy of the Fermi velocities ranging from low (blue) to high (red). Image courtesy of Tanmoy Das, Los Alamos National Laboratory. Repo m1245



Getting Help



- **Submit questions online**

<https://help.nersc.gov>,

<https://my.nersc.gov>

- Submit update, review trouble tickets
- Submit quota increase forms

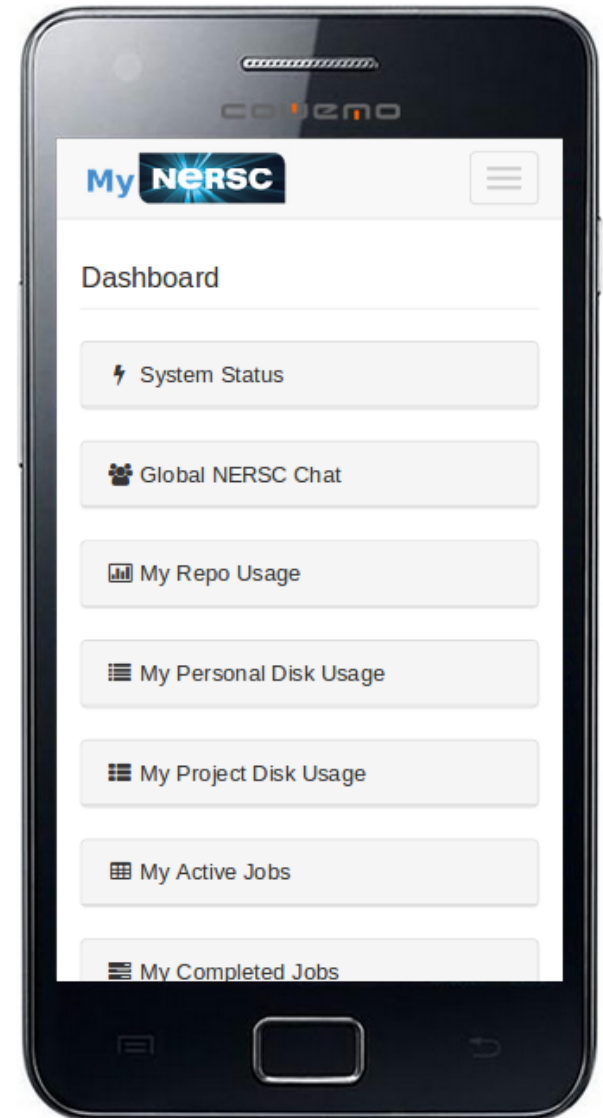
- **Email**

- consult@nersc.gov

- accounts@nersc.gov

- **Phone**

- 1-800-666-3772 (1-800-66-NERSC)
- Consultant 8-5 PT, 5 days/week
- NERSC Operator: 24x7x365: Status & Passwords



Getting Help



- **Tips for working with the HPC consultants:**
 - State which machine your question is about.
 - Provide error message(s) if applicable.
 - Provide batch job ID if job crashed
 - Provide filesystem, paths to files
 - Provide your NERSC user ID
 - New issue? New trouble ticket.

Explore the NERSC Web Site



- “For Users” Section

- Documentation
- Announcements
- Training
- My NERSC
- Job Logs and Analytics
- Help

- Live Status

- MOTD, Outages, Job Queues

- Events



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The screenshot shows the NERSC website with the 'For Users' section highlighted. The top navigation bar includes links for HOME, ABOUT, SCIENCE AT NERSC, SYSTEMS, FOR USERS, NEWS & PUBLICATIONS, R & D, EVENTS, LIVE STATUS, and NERSC@40. The 'FOR USERS' section is expanded, showing a list of links: Live Status, My NERSC, Getting Started, Computational Systems, Data & File Systems, Network Connections, Queues and Scheduling, Job Logs & Analytics, Training & Tutorials, Software, Accounts & Allocations, Policies, Data Analytics & Visualization, Science Gateways, User Surveys, NERSC Users Group, User Announcements, and Help. Below this list are links for 'Operations for Passwords & Off-Hours Status' and 'Account Support'. The main content area is titled 'FOR USERS' and contains sections for 'Live Status', 'My NERSC', 'Getting Started', 'Computational Systems', 'Data & File Systems', and 'Network Connections'. The right sidebar features 'Featured Announcements' and 'Current System Status'.

FOR USERS

Home » For Users

Live Status »
Check here for the MOTD and to find current system status. [Read More »](#)

My NERSC »
My NERSC is a convenient place to see your recent and queued jobs, your allocation balance, system status, and NERSC calendar. [Read More »](#)

Getting Started »
This document will guide you through the basics of using NERSC's supercomputers, storage systems, and services. [Read More »](#)

Computational Systems »
NERSC runs some of the fastest, most powerful supercomputers in the world. [Read More »](#)

Data & File Systems »
Describes how to manage, move, store, and share data at NERSC. [Read More »](#)

Network Connections »

Featured Announcements

NERSC User Announcements RSS Feed
30 JUNE 2014, 11:37 PM

Call for Proposals: NERSC Exascale Science Application Program
5 JUNE 2014, 9:36 PM

Nobel Lecture Videos Now Available Online
29 MAY 2014, 12:00 PM

Xeon Phi Nationwide training sessions available from Intel
7 MAY 2014, 4:36 PM

Nobel Keynote Lecture Series May 20 - June 11
5 MAY 2014, 2:30 PM

Current System Status

Host	Status
Edison	Up
Hopper	Up
Carver	Up
PDSF	Up
Genepool	Up
HPSS	Up

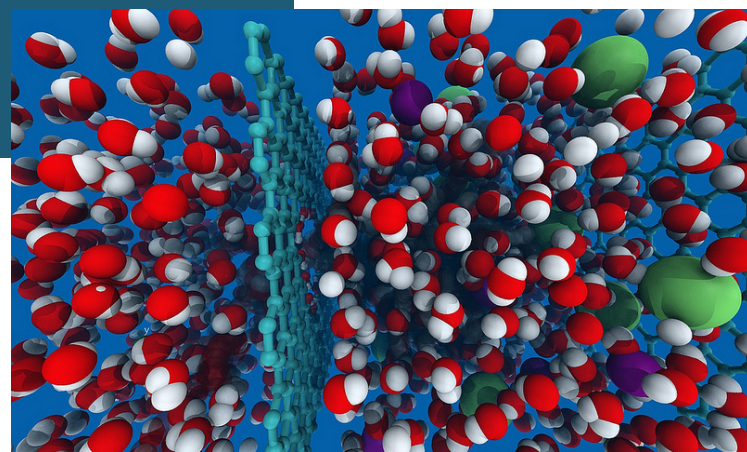


Giving Feedback



- **We always seek your feedback**
 - Write to consult@nersc.gov
 - Training suggestions to training@nersc.gov
- **Annual User Survey**
- **NERSC User Group (NUG)**
 - Get involved. Make NUG work for you.
 - Provide advice, feedback – we listen.
 - Monthly teleconferences with NERSC, usually the last Thursday of the month, 11:00 AM to noon Pacific Time.
 - Executive Committee - three representatives from each office and three members-at-large.

Expect Consistency.
And Change.



Molecular Dynamics simulation snapshot showing water molecules (red and white), and sodium, chloride ions (green and purple) encountering a sheet of graphene (pale blue, center) perforated by holes of the right size, with water passing through (left side), but sodium and chloride being blocked.



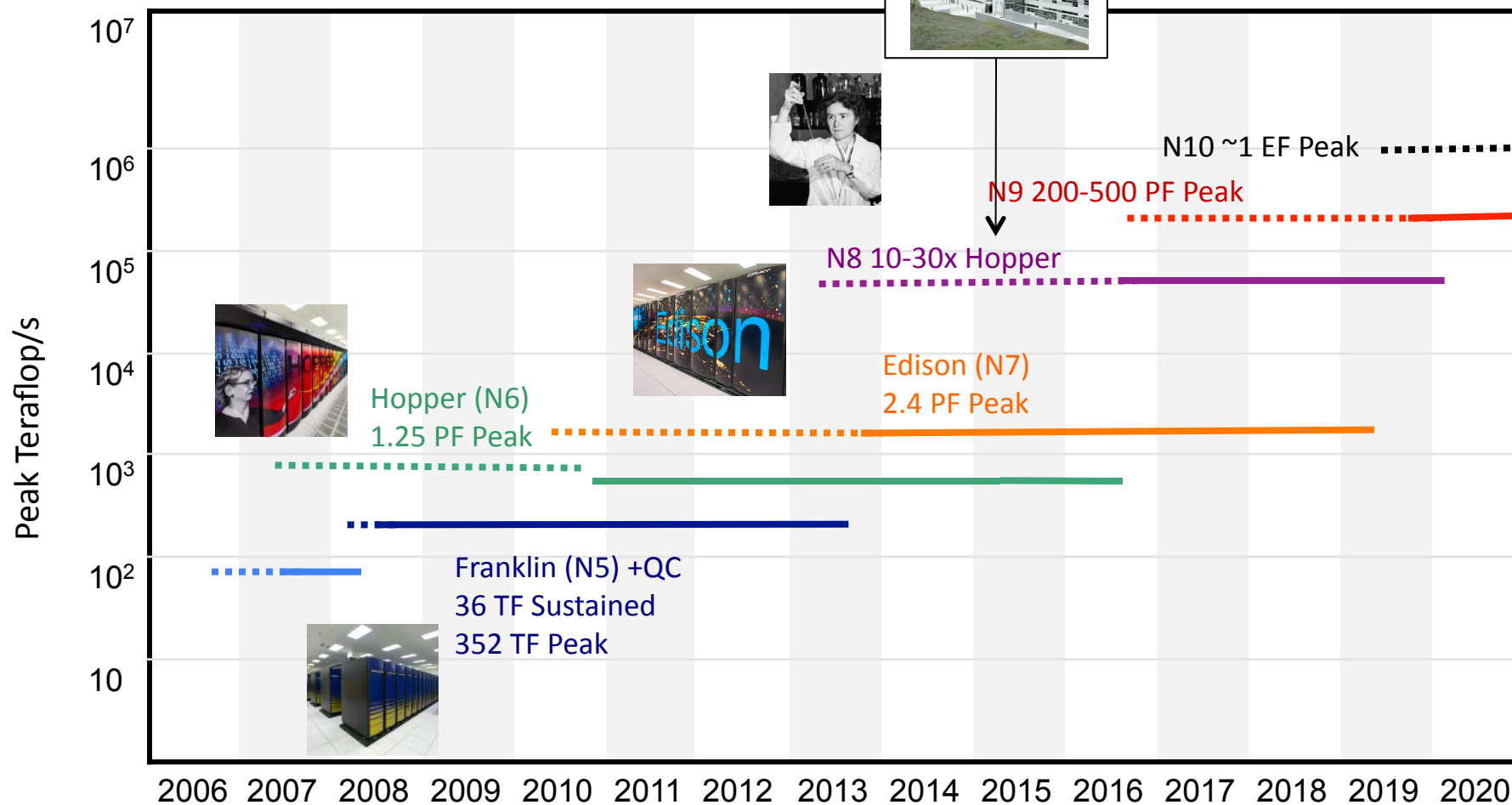
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NERSC Roadmap



CRT Facility



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NERSC Futures



- NERSC will be physically moving to a new facility in 2015.
- Carver will be “retired” August 31, 2015.
- NERSC-8 (Cori) will be installed; disruptive change: codes will likely run but will need to be modified to achieve good performance
 - NERSC will help users make this transition.
- Edison will remain available for codes that cannot transition to NERSC-8

disruption



Thank you and welcome to NERSC!